

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number  
**WO 2005/064004 A1**

(51) International Patent Classification<sup>7</sup>: C12P 19/26

(21) International Application Number:  
PCT/IN2003/000466

(22) International Filing Date:  
31 December 2003 (31.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (*for all designated States except US*): COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH [IN/IN]; Rafi Marg, New Delhi 110 001 (IN).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): KENCHAIAH, Lohith [IN/IN]; Central Food Technological Research Institute, Mysore 570 013, Karnataka (IN). GIRIYAPURA, Revanasiddappa, Vijayakumar [IN/IN]; Central Food Technological Research Institute, Mysore 570 013, Karnataka (IN). BALARAM, Manohar [IN/IN]; Central Food Technological Research Institute, Mysore 570 013, Karnataka (IN). SOUNDAR, Divakar [IN/IN]; Central Food Technological Research Institute, Mysore 570 013, Karnataka (IN).

(74) Agents: SUBRAMANIAM, Hariharan et al.; Subramanian, Nataraj & Associates, E-556 Greater Kailash II, New Delhi 110 048, Maharashtra (IN).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 2005/064004 A1

(54) Title: ENZYMATIC PROCESS FOR PREPARING AMINOACYL ESTERS OF MONOSACCHARIDES

(57) Abstract: The present invention particularly relates to lipase mediated synthesis of aminoacyl esters of monosaccharides from unprotected amino acids and monosaccharides in non-polar solvents using lipases.